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Titel: COATED CARBON FIBER REINFORCED COMPOSITE MATERIAL

Zusammenfassung

PURPOSE: To obtain the above material having a low sp. gr. and the excellent resistance to heat, oxidation and thermal impact by providing an HfC coating layer on the surface of a base material formed by incorporating carbon fiber reinforcing materials into a base material matrix consisting of carbon in the central part and a specific carbide, nitride or carbonitride in the surface part.

CONSTITUTION: The coated carbon fiber reinforced composite material is produced from the base material formed by incorporating the carbon fibers as the reinforcing material into the matrix consisting of the carbide, nitride or carbonitride of group IVA elements or silicon and the carbon and the coating layer which is formed on the surface of the base material and consists of the HfC. The matrix of the above-mentioned base material is formed to such graded compsn. which consists of the carbon in the central part and the above-mentioned carbide, nitride or carbonitride in the surface part and in which the compsn. changes nearly continuously from the central part to the surface part. The coated carbon fiber reinforced composite material which has the low sp.gr. and the excellent strength and the heat resistance

and is not cracked in the oxidation resistant coating layer by thermal stresses is obtd. according to the above-mentioned method.

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